

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

RECEIVED
Office of Oil and Gas

JUN 26 2014

API 47-39-06351 ^W County KANAWHA District BIG SANDY
Quad BLUE CREEK Pad Name _____ Field/Pool Name _____
Farm name JOHN & PEGGY BARKER REVOCABLE TRUST Well Number WHITE 2A
Operator (as registered with the OOG) RAVEN RIDGE ENERGY, LLC
Address 3230 PENNSYLVANIA AVENUE City CHARLESTON State WV Zip 25302

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing N/A Easting N/A
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 811' GL Type of Well ☒ New ☐ Existing Type of Report ☐ Interim ☒ Final
Permit Type ☐ Deviated ☐ Horizontal ☐ Horizontal 6A ☒ Vertical Depth Type ☐ Deep ☒ Shallow
Type of Operation ☐ Convert ☐ Deepen ☒ Drill ☐ Plug Back ☐ Redrilling ☐ Rework ☒ Stimulate
Well Type ☐ Brine Disposal ☐ CBM ☒ Gas ☒ Oil ☐ Secondary Recovery ☐ Solution Mining ☐ Storage ☐ Other _____
Type of Completion ☒ Single ☐ Multiple Fluids Produced ☒ Brine ☒ Gas ☐ NGL ☒ Oil ☐ Other _____
Drilled with ☐ Cable ☒ Rotary

Drilling Media Surface hole ☒ Air ☐ Mud ☐ Fresh Water Intermediate hole ☐ Air ☒ Mud ☐ Fresh Water ☐ Brine
Production hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine
Mud Type(s) and Additive(s)
SOAP

Date permit issued 3/28/2013 Date drilling commenced 4/4/2013 Date drilling ceased 4/10/2013
Date completion activities began 1/16/2014 Date completion activities ceased 2/1/2014
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 150' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,100' - 1,600' Void(s) encountered (Y/N) depths N
Coal depth(s) ft NONE OF RECORD Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

WR-35
Rev. 8/23/13

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API 47- 39 - 06351

Farm name JOHN & PEGGY BARKER REVOCABLE TRUST

Well number WHITE 2A

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	14 1/4"	13 3/8"	30'	NEW	J55 - 42LBS		YES - CEMENTED BY RIG
Surface	12 1/4"	9 5/8"	377'	NEW	LS - 17LBS		YES
Coal							
Intermediate 1	8 3/4"	7"	1,771'	NEW	J55 - 23LBS		YES
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2200'	NEW	J-55 - 10.5 LBS.		
Tubing			<u>2000'</u>				
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS I	10 - RIG				GROUND LEVEL	8
Surface	CLASS I	140	15.6	1.18	165.2	GROUND LEVEL	8
Coal							
Intermediate 1	CLASS I	355	15.6	1.18	418.9	GROUND LEVEL	8
Intermediate 2							
Intermediate 3							
Production	CLASS I	150	14.2	1.29	193.5	GROUND LEVEL	8
Tubing							

Drillers TD (ft) ²⁰²¹ _____

Loggers TD (ft) ²⁰¹⁷ _____

Deepest formation penetrated ^{Weir} _____

Plug back to (ft) ^{None} _____

Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run

☒ caliper

☒ density

☐ deviated/directional

☐ induction

☒ neutron

☐ resistivity

☒ gamma ray

☒ temperature

☐ sonic

Well cored ☐ Yes ☒ No

☒ Conventional

☐ Sidewall

Were cuttings collected

☐ Yes

☒ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

WAS WELL COMPLETED AS SHOT HOLE

☐ Yes ☒ No

DETAILS _____

WAS WELL COMPLETED OPEN HOLE?

☐ Yes ☒ No

DETAILS _____

WERE TRACERS USED

☐ Yes ☒ No

TYPE OF TRACER(S) USED _____

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Farm name JOHN & PEGGY BARKER REVOCABLE TRUST

Well number WHITE 2A

PERFORATION RECORD

[illegible]

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

[illegible]

Please insert additional pages as applicable.

API 47- 39 - 06351

Farm name JOHN & PEGGY BARKER REVOCABLE TRUST Well number WHITE 2A

PRODUCING FORMATION(S)

DEPTHS

WEIR 1836' - 1892' TVD MD

Please insert additional pages as applicable.

GAS TEST ☒ Build up ☐ Drawdown ☐ Open Flow

OIL TEST ☒ Flow ☐ Pump

SHUT-IN PRESSURE Surface 100 psi Bottom Hole psi DURATION OF TEST 12 hrs

OPEN FLOW Gas 10 mcfpd Oil 2 bpd NGL bpd Water bpd
GAS MEASURED BY ☒ Estimated ☐ Orifice ☐ Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
SAND	0	1100'	0		
SALT SAND	1100'	1330'			
SAND	1330'	1390'			
MAXTON	1390'	1527'			
PENCIL CAVE	1527'	1544'			
LITTLE LIME	1544'	1549'			
BIG LIME	1549'	1712'			
BIG INJUN	1712'	1738'			
SAND	1738'	1836'			
WEIR	1836'	1892'			
SAND	1892'	2021'			

Please insert additional pages as applicable.

Drilling Contractor Petty Oilfield Services

Address 7752 Lynne Avenue City Hamlin State WV Zip 25523

Logging Company Weatherford

Address 286 Weatherford Blvd. City Buckhannon State WV Zip 26201

Cementing Company Universal Well Services

Address 5 Hall Run Road City Buckhannon State WV Zip 26201

Stimulating Company Universal Well Services

Address 5 Hall Run Road City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by Danielle N. Boggs

Telephone 304-344-9291

Signature Danielle N. Boggs Title Operations Manager Date 12/11/2013

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

RECEIVED
Office of Oil and Gas

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

JUN 26 2014

WV Department of
Environmental Protection

API 47-39-06354 W County KANAWHA District BIG SANDY
Quad BLUE CREEK Pad Name _____ Field/Pool Name _____
Farm name TEX SEABOLT Well Number WHITE 1A
Operator (as registered with the OOG) RAVEN RIDGE ENERGY, LLC
Address 3230 PENNSYLVANIA AVENUE City CHARLESTON State WV Zip 25302

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing N/A Easting N/A
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 839' GL Type of Well ☒ New ☐ Existing Type of Report ☐ Interim ☒ Final
Permit Type ☐ Deviated ☐ Horizontal ☐ Horizontal 6A ☒ Vertical Depth Type ☐ Deep ☒ Shallow
Type of Operation ☐ Convert ☐ Deepen ☒ Drill ☐ Plug Back ☐ Redrilling ☐ Rework ☐ Stimulate
Well Type ☐ Brine Disposal ☐ CBM ☒ Gas ☒ Oil ☐ Secondary Recovery ☐ Solution Mining ☐ Storage ☐ Other _____
Type of Completion ☐ Single ☐ Multiple Fluids Produced ☒ Brine ☒ Gas ☐ NGL ☒ Oil ☐ Other _____
Drilled with ☐ Cable ☒ Rotary

Drilling Media Surface hole ☒ Air ☐ Mud ☐ Fresh Water Intermediate hole ☐ Air ☒ Mud ☐ Fresh Water ☐ Brine
Production hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine
Mud Type(s) and Additive(s)
SOAP

Date permit issued 3/15/2013 Date drilling commenced 4/10/2013 Date drilling ceased 4/17/2013
Date completion activities began 1/17/2014 Date completion activities ceased 2/1/2014
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 150' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,100' - 1,600' Void(s) encountered (Y/N) depths N
Coal depth(s) ft NONE OF RECORD Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

WR-35
Rev. 8/23/13

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API 47- 39 - 06354

Farm name TEX SEABOLT

Well number WHITE 1A

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	14 1/4"	13 3/8"	30'	NEW	J55 - 42LBS		YES - CEMENTED BY RIG
Surface	12 1/4"	9 5/8"	377'	NEW	LS - 17LBS	120'	YES
Coal							
Intermediate 1	8 3/4"	7"	1,769'	NEW	J55 - 23LBS	335'	YES
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2,200'	NEW	J55 - 10.5LBS	335'	
Tubing			<u>2016</u>				
Packer type and depth set			<u>JK</u>				

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS I	10 - RIG				GROUND LEVEL	8
Surface	CLASS I	160	15.6	1.18	188.8	GROUND LEVEL	12
Coal							
Intermediate 1	CLASS I	295	15.6	1.18	348.1	GROUND LEVEL	8
Intermediate 2							
Intermediate 3							
Production	CLASS I	150	14.2	1.29	193.5	GROUND LEVEL	8
Tubing							

Drillers TD (ft) 2058'

Loggers TD (ft) 2050'

Deepest formation penetrated WEIR

Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run

☒ caliper

☒ density

☐ deviated/directional

☒ induction

☒ neutron

☐ resistivity

☒ gamma ray

☒ temperature

☐ sonic

Well cored ☐ Yes ☒ No

☒ Conventional

☐ Sidewall

Were cuttings collected ☐ Yes ☐ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ☒ No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS _____

WERE TRACERS USED ☐ Yes ☒ No TYPE OF TRACER(S) USED _____

Page 3 of 4

Well number WHITE 1A

[illegible]

Please insert additional pages as applicable.

Complete a separate record for each stimulation stage.

[illegible]

Please insert additional pages as applicable.

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Well number WHITE 1A

DEPTHS

MD

OIL TEST ☒ Flow ☐ Pump

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
8 mcfpd 1 bpd _____ bpd _____ bpd ■ Estimated □ Orifice □ Pilot

	NAME TVD	TVD	MD	MD	TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
SAND	0	1128'	0		
SALT SAND	1128'	1357'			
SAND	1357'	1418'			
MAXTON	1418'	1555'			
PENCIL CAVE	1555'	1572'			
LITTLE LIME	1572'	1577'			
BIG LIME	1577'	1740'			
BIG INJUN	1740'	1766'			
SAND	1766'	1964'			
WEIR	1964'	2017'			
SAND	2017'	2058'			

Submittal of Hydraulic Fracturing Chemical Disclosure Information **Attach copy of FRACFOCUS Registry**